

IN THE CLAIMS:

Please cancel Claim 6 without prejudice or disclaimer of subject matter, and amend the claims as shown below. The claims, as currently pending in the application, read as follows:

1. (Currently Amended) A circuit board comprising:
a sheet-shaped optical transmission medium for transmitting optical signals;
a plurality of optical I/O devices connected to the sheet-shaped optical transmission medium;

a reconfigurable integrated circuit connected to the plurality of optical I/O devices and a plurality of electronic devices; and

a mediating device for transmitting a signal to the reconfigurable integrated circuit such that the reconfigurable integrated circuit changes a route of connection by selecting an optical path from a plurality of optical paths among the plurality of electronic devices and the plurality of optical I/O devices in accordance with the signal,

wherein said optical I/O devices are photonic ball ICs.

2. (Previously Presented) A circuit board according to claim 1, wherein the number of said optical I/O devices is smaller than the number of said electronic devices.

3. (Previously Presented) A circuit board according to claim 1,
wherein said reconfigurable integrated circuit is formed by using a field programmable gate
array.

4. (Previously Presented) A circuit board according to claim 1,
wherein said reconfigurable integrated circuit connects two or more electronic devices to a
single optical I/O device.

5. to 7. (Cancelled).